



FEATURES

- IEC 320/C6, C8 or C14 AC Inlet
- GaN FET Based Compact Design
- 11.1W/in³ High Power Density
- 95% Typical Efficiency
- Compliant with DoE Level VI
- IEC/EN/UL 60601-1 Approvals
- IEC/EN 60601-1-11 Approvals for Class II Models
- IP42 Class II & IP40 Class I Models



INPUT SPECIFICATIONS

Input Voltage Range	100-240 VAC
Input Frequency	50-60 Hz
Input Current	2.4A max. @ 100 VAC/240 VAC
Inrush Current.....	100A max. @ full load, at 25°C cold start
Touch Current	100 µA max. @ 264 VAC
Leakage Current	100 µA max. @ 264 VAC (Class I)

OUTPUT SPECIFICATIONS

Output Power Ratings	See models list
No Load Power Cons.	0.15W typical
Line Regulation	±5% max.
Load Regulation	±5% max.
Ripple and Noise*	1% Vp-p max. of output @ full load
Over Voltage Protection	Set @ 180%; Latch off
Over Current Protection	Set @ 180%; Auto-recovery
Short Circuit Protection	Shut down; Auto-recovery
Over Temp. Protection	Latch off
Thermal Shutdown	Protected to over-temp. conditions
Temperature Coefficient	±0.04%/°C max.
Transient Response	0.5 ms for 50% load change typical

* Measured with 20MHz bandwidth at nominal line voltage and full load, with a 47µF low ESR electrolytic capacitor in parallel with a 0.1µF multilayer capacitor in parallel across the output.

GENERAL SPECIFICATIONS

Power Factor	>0.90 typical @ full load
Efficiency	95% typical @ full load
Switching Frequency	250 KHz max.
Hold-Up Time	10 ms min. @ full load
Operating Altitude	5,000 meters max.
Operating Temperature	-20°C to +40°C
Derating	Derate from 100% at +40°C linearly to 50% at +60°C
Storage Temperature	-25°C to +80°C
Operating Humidity	20% to 80%, non-condensing
Storage Humidity	10% to 90%, non-condensing
Ingress Protection	IP40 for Class I, IP42 for Class II
Withstand Voltage	4,000 VAC, input to output (2 MOPP), 1,500 VAC, input to ground (1 MOPP)
MTBF	300,000 hours minimum at full load, 25°C ambient, calculated per Telcordia SR-332

MODELS LIST

Product No. ⁽¹⁾	Output Voltage	Maximum Output Current	Maximum Output Power
TGM200-12	12V	16A	192W
TGM200-15	15V	13A	195W
TGM200-19	19V	10.5A	200W
TGM200-24	24V	8.3A	200W
TGM200-48	48V	4.2A	200W

Note:
1) Add suffix "-4" to the P/N for models furnished with IEC 320/C14 AC inlet, "-6" for C6 inlet, "-8" for C8 inlet, e.g. TGM200-12-4, TGM200-12-6, TGM200-12-8, etc.

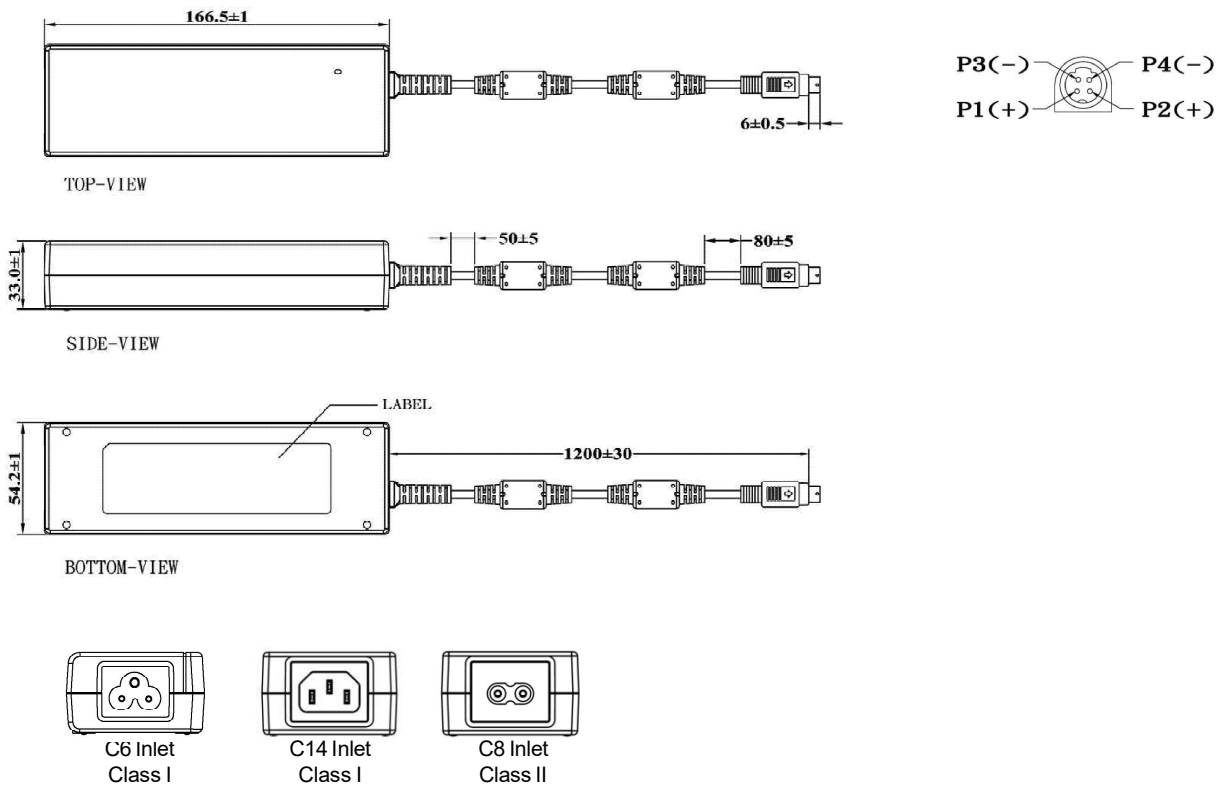
STANDARDS & COMPLIANCE

IEC/EN 61000-1-2, 4 th Ed. . EMC & Immunity Performance	
EN 55011, EN 55022	Class B, conducted & radiated
FCC, VCCI	Class B, conducted & radiated
EN 61000-3-2	Harmonic distortion, Class A & D
EN 61000-3-3	Line flicker
EN 61000-4-2	ESD, ±15 KV air and ±8 KV contact
EN 61000-4-3	Radiated immunity, 10 V/m
EN 61000-4-4	Fast transient/burst, ±2 KV
EN 61000-4-5	Surge, ±1 KV diff., ±2 KV com.
EN 61000-4-6	Conducted immunity, 10 Vrms
EN 61000-4-8	Magnetic field immunity, 30 A/m
EN 61000-4-11	Voltage dips, 30% reduction for 500ms, 60% reduction for 100ms, >95% reduction for 10ms
Safety Standards	IEC/EN/UL 60601-1 (Edition 3.1), ANSI/AAMI ES 60601-1 (Edition 3.1); IEC/EN 60601-1-11 (Class II models)
Agency Approvals	UL, cUL, TUV, PSE, CE, CB
Other Compliance	RoHS, ErP Stage 2, DoE Level VI, CoC Tier 2, NRCAN & GEMS Level VI

TGM200 Series

200W GaN FET Medical Grade AC/DC Power Adapters

MECHANICAL SPECIFICATIONS



Notes:

1. Unit: mm
2. Weight: 620 grams approx.
3. Length of output cable: 1200mm for 12V~15V, 1500mm for 19V~48V.
4. Standard output connector: Kycon P/N KPPX-4P circular DIN or equivalent.
5. Mating connector: Kycon P/N KPJX-4S-S or equivalent.
6. Contact TRUMPower for output connector options.